

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-GT  
Procedure No.: Table of Contents, Rev 14  
Page: 1 of 4  
Effective Date: 01/20/92  
Organization: Environmental Management

**THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH  
INCLUDES:**

**VOLUME I: FIELD OPERATIONS (FO)  
VOLUME II: GROUNDWATER (GW)  
VOLUME III: GEOTECHNICAL (GT)  
VOLUME IV: SURFACE WATER (SW)  
VOLUME V: ECOLOGY (EE)  
VOLUME VI: AIR (AP)**

**TABLE OF CONTENTS  
FOR VOLUME III: GEOTECHNICAL**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GT.01	Logging Alluvial and Bedrock Material	1	08/30/91
DCN 91.01	Recording lithologic descriptions and securing core boxes	1	11/15/91
DCN 91.02	Clarification of log approval for multi-use wells	1	12/03/91
GT.02	Drilling and Sampling Using Hollow Stem Auger Techniques	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 91.02	Correction of well location for low Alluvial thickness	1	11/06/91
DCN 91.03	Ten foot long core barrels	1	11/15/91
DCN 92.01	Clarify unconsolidated core sample requirements	1	01/20/92
GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	1	08/30/91
DCN 91.01	Superseded by DCN 91.03	1	12/12/91
DCN 91.02	Superseded by DCN 92.01	1	01/20/92

**ADMIN RECORD**

**DOCUMENT CLASSIFICATION  
REVIEW WAIVER PER  
CLASSIFICATION OFFICE**

A-SW-000961

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**Manual No.: 5-21000-OPS-GT**  
**Procedure No.: Table of Contents, Rev 14**  
**Page: 2 of 4**  
**Effective Date: 01/20/92**  
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<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
DCN 91.03	Change in criteria for cement grouting	1	12/12/91
DNC 92.01	Grout procedure clarification	1	01/20/92
DCN 91.04	Depth of casing emplacement	1	12/17/91
DCN 91.05	Addition of Grout Ports	1	12/19/91
GT.04	Rotary Drilling and Rock Coring	1	08/30/91
DCN 91.01	Superseded by DCN 92.02	1	01/20/92
DCN 91.02	Superseded by DCN 92.01	1	01/20/92
DCN 91.03	Superseded by DCN 91.04	1	12/17/91
DCN 91.04	Clarification of the use of super gel-x	1	12/17/91
DCN 92.01	Clarification of measuring tape decontamination requirements	1	01/20/92
DCN 92.02	Clarification of core barrel decontamination	1	01/20/92
GT.05	Plugging and Abandonment of Boreholes	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 92.01	Surface casing classification	1	01/20/92
GT.06	Monitoring Wells and Piezometer Installation	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 91.02	Superseded by DCN 92.02	1	01/20/92
DCN 91.03	Superseded by DCN 91.06	1	11/08/91
DCN 91.04	Low Alluvial thickness wells	1	11/06/91
DCN 91.05	Superseded by DCN 91.08	1	11/15/91

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**Manual No.:** 5-21000-OPS-GT  
**Procedure No.:** Table of Contents, Rev 14  
**Page:** 3 of 4  
**Effective Date:** 01/20/92  
**Organization:** Environmental Management

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
DCN 91.06	Change in filter pack guidance	1	11/08/91
DCN 91.07	Decontamination for site-wide geological chracterization	1	11/15/91
DCN 91.08	Figure replacement (GT.6-1)	1	11/15/91
DCN 91.09	Sampling with center bit drilling	1	12/03/91
DCN 92.01	Change in penetration depth into bedrock	1	01/20/92
DCN 92.02	Specification of auger size	1	01/20/92:
GT.07	Logging and Sampling of Test Pits and Trenches	1	08/30/91
GT.08	Surface Soil Sampling	1	08/30/91
DCN 91.01	Clarification supplementation of GT.08 - Surface Soil Sampling	1	11/26/91
DCN 92.01	Soil core sampling revision	1	01/02/92
GT.09	Soil Gas Sampling and Field Analysis	1	08/30/91
GT.10	Borehole Clearing	1	08/30/91
GT.11	Plugging and Abandonment of Wells	1	08/30/91
DCN 92.01	Clarification of handling of contaminated/ decontaminated surface pad materials	1	01/20/92
GT.15	Geophysical Borehole Logging	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 92.01	Clarification of hole logging requirements	1	01/20/92
GT.17	Land Surveying	1	08/30/91
GT.18	Surface Geophysical Surveys	1	08/30/91
GT.19	Field Gas Chromatographs	1	08/30/91

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Manual No.: 5-21000-OPS-GT  
Procedure No.: Table of Contents, Rev 14  
Page: 4 of 4  
Effective Date: 01/20/92  
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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	1	08/30/91
GT.21	Cone Penetrometer Testing	0	12/19/91

# ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.4, Rev. 1

Page 1 of 1

Title <b>Rotary Drilling and Rock Coring</b>			Date <b>(10-28-91) 1-15-92</b>		DCN Number <b>5-21000-OPS-GT.4 93.01</b>		
Expires <u>4-30-92</u> <u>4/19/92</u> <u>1/20/92</u>			Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Scope Limitation <u>Sitewide Geologic</u>							

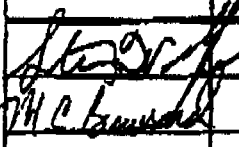

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET (or Additional Space))
1	8 of 10	6.0 paragraph 1	Add the following to the end of the paragraph: "When coring bedrock using water as a circulating medium, no decontamination of measuring tapes is necessary between coring runs. The measuring tapes will be decontaminated after each boring is complete."


**Justification (Reason for Change -- Provide Numbers To Reference Corresponding Items Above)**

The potentially contaminated alluvium has already been isolated from the bedrock. In addition, the borehole is filled with liquid and there is constant communication between the drilling fluid, the exposed borehole and the measuring tape.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	1/20/92		User	X	1/15/92
	EOM	X	1/15/92		USER	X	

Approval of Responsible Manager 	Date <u>01/17/92</u>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <u>1-30-92</u>	Date Posted
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